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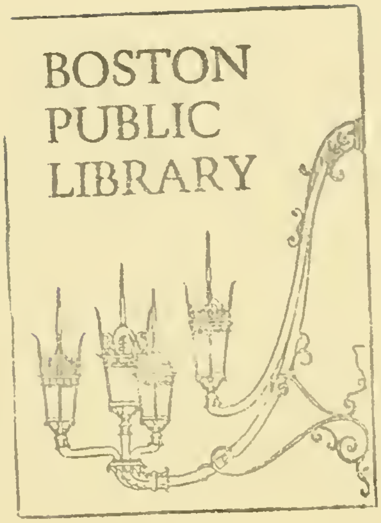

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Government Center Commission

Outline specifications; Preliminary cost estimates; Description of materials for Boston City Hall and Plaza, with Preliminary finish schedule for Boston City Hall.

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Outline Specifications for the:

1. BOSTON CITY HALL
2. PLAZA

Preliminary Cost Estimates for the:

1. BOSTON CITY HALL
2. PLAZA

Description of Materials for the:

1. BOSTON CITY HALL
2. PLAZA

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Preliminary Finish Schedule for the:

BOSTON CITY HALL

Submitted to the Government Center Commission

BY: Campbell & Aldrich -- Registered Architects
Kallmann, McKinnell & Knowles
Wm. J. LeMessurier & Associates, Inc.

The Honorable John F. Collins, Mayor

GOVERNMENT CENTER COMMISSION
OF THE CITY OF BOSTON

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LLMANN, McKINNELL & KNOWLES CAMPBELL & ALDRICH WM. J. LEMESSURIER & ASSOC., INC.
ARCHITECTS AND ENGINEERS FOR THE BOSTON CITY HALL
711 BOYLSTON STREET, BOSTON 24, MASSACHUSETTS 262-9560

Boston City Hall
Boston
28 January 1963

OUTLINE SPECIFICATIONS

for the

BOSTON CITY HALL

Section

1. Excavation, Filling and Grading
2. Special Foundations
3. Concrete Work
4. Precast Concrete Work
5. Structural Steel
6. Waterproofing, Dampproofing and Caulking
7. Masonry
8. Roofing and Sheet Metal
9. Metal Doors and Frames
10. Special Doors
11. Aluminum Windows
12. Glass and Glazing
13. Miscellaneous Metal
14. Thermal Insulation
15. Carpentry and Millwork
16. Furring, Lathing and Plastering
17. Terrazzo Floors
18. Ceramic Tile
19. Resilient Floors
20. Acoustical Work
21. Metal Toilet Partitions
22. Miscellaneous Equipment
23. Floating Floor
24. Finish Hardware
25. Painting and Finishing
26. Elevators and Dumbwaiter
27. Escalators
28. Plumbing Work
29. Sprinkler Work
30. Heating, Ventilating and Air Conditioning
31. Electrical Work

SECTION 1

EXCAVATION, FILLING AND GRADING

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the EXCAVATION, FILLING AND GRADING work as shown on the drawings and as specified, generally to include:

a) Demolition and removal of underground structures within the area of new building as required (foundation walls, footings, slabs, subway structures). Salvage materials shall become the property of demolition sub-contractor.

b) Protection of all existing utilities which are to remain and removal of all existing utilities not scheduled for re-use.

c) Removal and disposal of rubble, existing improvements, and objectionable materials.

d) Excavating, trenching, and related work.

e) Sheet piling and/or shoring such portions of excavations or fills as may be required.

f) Pumping and/or bailing, including well point system necessary to maintain excavated spaces free from water from any source whatsoever.

g) Foundation drains.

h) Compacted structural fills and backfilling.

i) Subgrade preparation.

SECTION 2

SPECIAL FOUNDATIONS

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the SPECIAL FOUNDATIONS as shown on the drawings and as specified.

The exact type of foundations will not be determined until the borings have been completely analyzed.

SECTION 3

CONCRETE WORK

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the CONCRETE WORK, as shown on the drawings and as specified, generally to include:

a) All footings and foundations, including foundations for pits, sumps, trenches and all concrete bases shown on the drawings.

b) All cast in place, reinforced, lightweight and heavyweight concrete, especially slabs, columns, walls, and connections for beam segments.

c) All slabs on grade.

d) Lightweight concrete fill over structural slabs.

e) Concrete stairs including hardening treatment and abrasive aggregate.

f) Heavy duty topping.

g) Sheetmetal anchor slots in concrete surfaces where masonry walls are attached.

h) Surface preparation for metallic waterproofing, ceramic tile, and quarry tile.

i) Concrete tests.

j) Shop drawings.

k) Samples.

l) Winter protection.

m) Vapor barrier.

n) Water stops.

o) Flashing reglets.

2. WORK NOT INCLUDED

a) Precast concrete work, specified under SECTION 4.

b) Underfloor ducts and header system under SECTION 31.

c) Supplying and/or installing hangers, inserts, sleeves, etc., specifically mentioned in other SECTIONS such as HEATING, VENTILATING AND AIR CONDITIONING, ELECTRICAL, OR PLUMBING.

3. INSTALLATION OF MATERIALS FURNISHED BY OTHER SECTIONS

a) Embedded items of MISCELLANEOUS METAL, SECTION 13.

b) Install bolts, nailers, etc., as furnished under CARPENTRY AND MILLWORK, SECTION 15.

SECTION 4

PRECAST CONCRETE WORK

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the LIGHTWEIGHT PRECAST CONCRETE WORK, as shown on the drawings and as specified generally to include:

a) Concrete precast beams, precast ceiling crosses, precast slabs and precast filler slabs.

b) Precast concrete panels for corridor partitions on 5th, 6th, 7th, 8th, and 9th floors.

c) Precast concrete skylights on roof above 3rd floor.

d) Concrete fins on 6th, 7th, 8th and 9th floors.

e) Precast window frames as indicated on drawings for 1st, 2nd, 3rd, and 4th Floors.

2. WORK NOT INCLUDED

a) Concrete work, specified under SECTION 3.

SECTION 5

STRUCTURAL STEEL

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the STRUCTURAL STEEL work as shown on the drawings and as specified, generally to include:

a) Beams framing the existing subway and the new subway (A441 Structural Steel).

SECTION 6

WATERPROOFING, DAMPPROOFING AND CAULKING

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the WATERPROOFING, DAMPPROOFING AND CAULKING work, as shown on the drawings and as specified.

PART I - CEMENT WATERPROOFING

2. WORK INCLUDED

a) Waterproofing of entire first floor slab, including elevator pits and all depressions. Thickness, 1 inch.

b) Waterproofing of interior face of exterior concrete walls below grade and up to elevation 25, whichever is lower. Thickness, 5/8 inch.

PART II - MEMBRANE WATERPROOFING

3. WORK INCLUDED

a) Waterproofing, if required, of lower subway tunnel after removal of upper tunnel, in accordance with MTA requirements.

b) Waterproofing and paving on all paved terraces, consisting of:

(1) Insulation where required.

(2) 5-ply membrane waterproofing, with 2 plies of oil kraft paper between second and third membrane.

(3) Brewery floor, 1 inch thick.

(4) Brick paving or quarry tile paving, set in cut-back type of asphalt trowel mastic, with perimeter joints sealed with a polysulfide based synthetic rubber sealant. Joints between brick or quarry tile shall be filled with mortar.

c) Waterproofing of floors in toilet rooms occurring outside core on sixth floor, consisting of 3-ply membrane waterproofing.

PART III - DAMPPROOFING

4. WORK INCLUDED

a) Dampproofing of exterior face of all foundation walls below grade, consisting of one spray coat and one trowel coat of asphalt dampproofing.

b) Dampproofing on masonry and concrete behind interior wood paneling, consisting of one spray coat of asphalt dampproofing.

PART IV - FABRIC FLASHING

5. WORK INCLUDED

a) Fabric flashing at brick starter course, under precast concrete sills and where shown. Fabric flashing shall be laid in a full trowel coat of asphalt dampproofing and be coated with a full trowel coat of same material.

PART V - SEALING AND CAULKING

6. WORK INCLUDED

a) Sealing of joints between precast concrete items and adjoining concrete, and wherever drawings call for "sealant", sealant shall be 1 part liquid Polymer sealant.

b) Caulking of perimeter of windows, doors, and wherever drawings call for "Caulking", caulking shall be Architectural Grade Caulking Compound.

SECTION 7

MASONRY

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the MASONRY work, as shown on the drawings and as specified, generally to include:

a) Brick paving on slabs which are not waterproofed.

b) Exterior and interior brick walls and partitions.

c) Masonry block walls, partitions, and back-up.

d) Furnish and install all wall reinforcing, ties and anchors required for securing all masonry work together and to adjacent work.

e) Build in all blockings, loose steel lintels, anchor bolts, access panels, door frames, metal flashing, and all other items requiring building into the work of this Section as furnished or set by other Sections.

f) Cutting and patching of work of this Section as required by the work of other Sections.

g) Cleaning and pointing of all work of this Section exposed to view.

h) Erection of sample masonry panels and submission of samples as called for or as requested by the Architect.

2. WORK NOT INCLUDED

a) Brick paving on paved terraces, specified under SECTION 6, WATERPROOFING, DAMPPROOFING AND CAULKING.

3. MATERIALS

a) Portland Cement -- Shall conform to A.S.T.M. specification C150-56, Type II.

b) Lime -- Shall conform to A.S.T.M. specification C207-49, Type S.

c) Sand -- Shall conform to A.S.T.M. specification C144-52T.

d) Integral color shall be used for all brick masonry.

3. MATERIALS (Continued)

e) Integral waterproofing shall be used for all exterior mortar.

f) Face Brick shall conform to A.S.T.M. specification C 62-50, grade SW for clay or shale brick and exhibit no efflorésence when subjected to A.S.T.M. test C 67-50 for a period of 7 days.

g) Masonry block shall be lightweight units, conforming to A.S.T.M. Specification C 90-52 for hollow-load-bearing units.

h) Wall reinforcing shall be galvanized, made of three No. 9 steel rods welded in the same plane. Install at every second horizontal block joint and in first joint above all openings.

i) Anchor and anchor slots shall be dovetail galvanized sheet steel. Install wherever brick or masonry block butt against concrete walls or columns.

j) Weep holes shall be lead coated, installed 24" o.c. above through-wall flashings.

SECTION 8

ROOFING AND SHEET METAL

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the ROOFING AND SHEET METAL work, as shown on the drawings and as specified, generally to include:

a) Insulation on all unpaved roof slabs; 2" rigid insulation.

b) Twenty (20) year bond built-up roofing for all unpaved roof slabs, including bituminous base flashing, unless specifically noted to be metal base flashing.

c) White marble chips aggregate on all built-up roof areas.

d) Metal flashings, including standing seam around parapets, base flashings, copings, cap flashings, flashings for items projecting through roof, and where shown. Cold rolled copper to be 16 ounce. Lead coated copper to be 16 ounce.

e) Roof hatches over elevator shafts.

2. WORK NOT INCLUDED

a) Insulation and membrane waterproofing of paved terraces; membrane fabric flashing specified under SECTION 6, WATERPROOFING, DAMPPROOFING AND CAULKING.

b) Wood nailing and cant strips, blocking, wood curbs, specified under SECTION 15, CARPENTRY AND MILLWORK.

c) All sheet metal work, other than flashing, in connection with heating, ventilating and air-conditioning, specified under SECTION 30, HEATING, VENTILATING AND AIR-CONDITIONING.

SECTION 9

METAL DOORS AND FRAMES

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to furnish the METAL DOORS AND FRAMES, as shown on the drawings, schedules and as specified, generally to include:

a) Pressed metal frames, 14 gauge pressed steel.

b) Hollow metal doors, 16 gauge flush steel, 1-3/4" thick.

2. WORK NOT INCLUDED

a) Installation of all work under this Section is specified under SECTION 15, CARPENTRY AND MILLWORK.

b) Hardware is furnished under SECTION 24, FINISH HARDWARE.

c) Field painting is specified under SECTION 25, PAINTING AND FINISHING.

SECTION 10

SPECIAL DOORS

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the SPECIAL DOORS, as shown on the drawings, and as specified, generally to include:

a) Vault doors.

b) Rolling doors for Garage.

c) Rolling grilles for counter in Treasury.

d) Folding door in Shared Conference Room on 8th floor.

e) Bronze doors.

SECTION 11

ALUMINUM WINDOWS

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the ALUMINUM WINDOWS, as shown on the drawings, and as specified, generally to include:

a) Monumental aluminum windows and door frames on 1st, 2nd, 3rd, 4th, and 5th floors, Duranodic anodized.

b) Extruded aluminum window units on 5th, 6th, 7th, 8th, and 9th floors, Duranodic anodized, including:

(1) Frames for windows and for door units.

(2) Fixed lower glazed unit.

(3) 360 degree reversible windows.

(4) Upper fixed glass windows.

(5) Exterior air induction unit covers.

2. WORK NOT INCLUDED

a) Caulking between perimeter of frames and collateral construction, specified under SECTION 6, WATERPROOFING, DAMPPROOFING AND CAULKING.

b) Glass and glazing, Herculite doors, specified under SECTION 12, GLASS AND GLAZING.

c) Structural steel sub-frames for monumental window and door frames, specified under SECTION 13, MISCELLANEOUS METAL.

d) Interior air induction unit covers, specified under SECTION 30, HEATING, VENTILATING AND AIR-CONDITIONING.

SECTION 12

GLASS AND GLAZING

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the GLASS AND GLAZING work, as shown on the drawings and as specified, generally to include:

a) Glass and glazing of all exterior fixed lights, windows and glazed aluminum doors.

b) Glass and glazing of all interior fixed lights and doors.

c) Herculite doors.

d) Mirrors.

e) Wire glass for skylights.

SECTION 13

MISCELLANEOUS METAL

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the MISCELLANEOUS METAL work, as shown on the drawings and as specified, generally to include:

a) Gratings and frames.

b) Metal stairs.

c) Ladders.

d) Stair railings.

e) Loose lintels.

f) Fastening of precast concrete.

g) Overhead supports for metal toilet partitions.

h) Structural steel door frames.

i) Structural steel sub-frames for monumental aluminum windows.

j) Metal wire partitions.

k) Supports for equipment.

l) Flag poles.

m) Louvers.

n) Safety nosings.

o) Wheel guards.

p) Metal skylights.

q) Finish:

   (1) Exterior work -- galvanized.

   (2) Interior work -- one shop coat.

SECTION 14

THERMAL INSULATION

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the THERMAL INSULATION work, as shown on the drawings and as specified, generally to include:

a) Insulation of all overhanging floor slabs, laid-in fiberglas.

b) Insulation on exterior walls where called for, rigid board insulation.

2. WORK NOT INCLUDED

a) Insulation of paved terraces, specified under SECTION 6, WATERPROOFING, DAMPPROOFING AND CAULKING.

b) Insulation of roofs, specified under SECTION 8, ROOFING AND SHEET METAL.

SECTION 15

CARPENTRY AND MILLWORK

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the CARPENTRY AND MILLWORK as shown on the drawings and as specified, generally to include:

a) All rough carpentry, nailers, grounds, furring, blocking, cant and nailing strips, roof curbs, etc., as shown on the drawings and as required for attachment and support for all the work of this and other Sections.

b) Wood doors.

c) Wood sub-floors.

d) Hardwood floors.

e) Wood paneling.

f) Case and cabinet work.

g) Plastic laminate work.

h) Wood handrails.

i) Finish and trim.

j) Tackboards and chalkboards.

k) Furnish and install all rough hardware required by the work of this Section.

l) Install finish hardware, furnished under SECTION 24, FINISH HARDWARE.

m) Install metal doors and frames, furnished under SECTION 9, METAL DOORS AND FRAMES.

SECTION 16

FURRING, LATHING AND PLASTERING

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the FURRING, LATHING AND PLASTERING work as shown on the drawings and as specified herein, generally to include:

a) Furring

(1) Suspended grillages for plaster ceilings.

(2) Metal furrings.

(3) Metal stud partitions.

b) Lathing

(1) Metal lath on suspended ceilings.

(2) Metal lath on vertical furrings.

(3) Metal lath on metal stud partitions.

(4) Self-furring lath on block masonry to receive scratch coat or finish plaster coats.

(5) Lathing accessories.

c) Plastering

(1) Scratch coat for ceramic tile.

(2) Base coats and gypsum-lime finish coat for all interior plaster work.

2. WORK NOT INCLUDED

a) Wood grounds, nailers, blocking, etc., specified under SECTION 15, CARPENTRY AND MILLWORK.

SECTION 17

TERRAZZO FLOORS

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the TERRAZZO FLOORS, as shown on the drawings, room finish schedule and as specified, generally to include:

a) Semi-Terrazzo floors.

b) Sealing and buffing of all semi-Terrazzo floors.

2. THICKNESS

The floors shall have a minimum thickness of 3½", consisting of a ¼" sand bed, and underbed, and a 5/8" Terrazzo topping.

3. MATERIALS

a) Cement: Type I Cement.

b) Aggregate: Small aggregate, maximum size ½".

c) Divider Strips: Brass.

SECTION 18

CERAMIC TILE

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the CERAMIC TILE work, as shown on the drawings, room finish schedule, and as specified, generally to include:

a) Ceramic tile floors.

b) Ceramic tile walls.

2. WORK NOT INCLUDED

a) Quarry tile floors on paved terraces, specified under SECTION 6, WATERPROOFING, DAMPPROOFING AND CAULKING.

b) Scratch coat on walls, specified under SECTION 16, FURRING, LATHING AND PLASTERING.

3. MATERIALS

a) Floor tile - natural clay, unglazed ceramic tile, 1" x 1" or 2" x 2".

b) Wall tile - same as above, 2" x 2".

SECTION 19

RESILIENT FLOORS

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the RESILIENT FLOORS as shown on the drawings, room finish schedule and as specified, generally to include:

a) Vinyl asbestos tile floors.

b) Rubber cove base.

c) Cleaning and finishing of all work under this Section.

2. MATERIALS

a) Vinyl asbestos tile - standard product, 9" x 9" x 1/8" thick.

b) Rubber cove base - set-on type, 4" high, with end stops and preformed corner pieces.

c) Floor finish - self-polishing, non-yellowing, water emulsion commercial floor finish.

SECTION 20

ACOUSTICAL WORK

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the ACOUSTICAL WORK as shown on the drawings, schedules and as specified, generally to include:

a) Acoustical board, 1" thick, applied by adhesive to underside of concrete ceiling slabs, second through ninth floor.

2. MATERIALS

a) Acoustical Board shall be 4'-0" x 4'-0" x 1" thick, weight 2.25 lbs. per square foot; consisting of wood fibers and a hydraulic cement binder. The panels shall be non-combustible in accordance with Federal Specifications SS-A-118b. Edges of panel shall be square cut.

SECTION 21

METAL TOILET PARTITIONS

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the METAL TOILET PARTITIONS, as shown on the drawings and as specified, generally to include:

a) Ceiling hung, flush type, partitions.

b) Floor supported, flush type, partitions.

c) Urinal screens.

d) Finish -- synthetic enamel baked-on over galvanized, bonderized steel.

2. WORK NOT INCLUDED

a) Toilet room accessories furnished under SECTION 22, SPECIAL EQUIPMENT, and installed under SECTION 28, PLUMBING WORK.

b) Overhead structural provisions, specified under SECTION 13, MISCELLANEOUS METAL.

SECTION 22

MISCELLANEOUS EQUIPMENT

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the MISCELLANEOUS EQUIPMENT, as shown on the drawings and as specified, generally to include:

a) Fixed laboratory equipment in Health Department.

b) Kitchen unit in Mayor's Suite.

c) Mail chutes and boxes.

d) Toilet room accessories.

e) Auditorium seating in Council Chamber.

f) Metal lockers.

g) Watchman's Tour Stations.

h) Directories.

2. WORK NOT INCLUDED IN THE CONTRACT

a) Electronic data processing machines.

b) Vending Machines.

c) Animal Room Equipment.

SECTION 23

FLOATING FLOOR

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to furnish and install the FLOATING FLOOR in the Central Electronic Data Processing Room on Second Floor, as shown on the drawings and as specified.

2. MATERIAL

To be determined at later date, in accordance with requirements of the Owner.

SECTION 24

FINISH HARDWARE

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to furnish and deliver to the job all FINISH HARDWARE in accordance with Finish Hardware Schedule prepared by the Architect.

2. ALLOWANCE

Finish hardware will be purchased under an allowance.

3. INSTALLATION

All finish hardware furnished under this Section shall be installed under SECTION 15, CARPENTRY AND MILLWORK.

SECTION 25

PAINTING AND FINISHING

1. SCOPE OF WORK

a) Provide all labor, materials and equipment necessary to complete the PAINTING AND FINISHING work throughout the exterior and interior of this project as shown on the drawings and as specified herein.

b) All coats of paint called for herein shall be in addition to any shop coats called for under other Sections.

2. SCHEDULE OF PAINTING

a) Exterior Work

(1) Concrete walls, columns - No paint.

(2) Concrete ceilings - No paint, except occasional areas of bright color.

(3) Iron and steel - Two coats enamel over shop coat.

(4) Galvanized metal - One coat zinc dust primer. Two coats enamel.

(5) Wood - Three coats natural or paint finish.

b) Interior Work

(1) Concrete floors - No paint, except parking stall stripes in Garage.

(2) Concrete walls, columns - No paint.

(3) Concrete ceilings - No paint, except occasional areas of bright color.

(4) Concrete stairs
    Treads and risers - No paint.
    Underside - No paint.

(5) Block masonry - Two coats flat wall enamel.

(6) Iron and steel - Two coats enamel over shop coat.

2. SCHEDULE OF PAINTING (Continued)

b) Interior Work (Continued)

(7) Plaster Walls - Three coats enamel, eggshell.

(8) Plaster ceilings - Three coats enamel, flat.

(9) Acoustical ceiling panels - No paint.

(10) Hardwood - Three coats natural finish.

(11) Softwood except T&G wall siding - Three coats enamel, eggshell.

(12) T & G wall siding - Two coats stain or paint as above.

(13) Service shelving - Two coats shellac.

c) Interior work mechanical trades

(1) Galvanized ductwork - One coat zinc dust primer.
Two coats enamel.

(2) Not galvanized iron & steel - Two coats enamel over shop coat.

(3) Cast iron pipes - Two coats enamel.

(4) Exposed covered piping, tanks - One coat Vinyl primer-sealer.
Two coats enamel.

(5) Electrical conduits and buses - Two coats enamel.

NOTE: Pipes, ducts, and all other items occurring in ceilings below concrete floor slab and above concrete coffers shall be considered EXPOSED and painted in accordance with above schedule.

SECTION 26

ELEVATORS AND DUMBWAITER

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the ELEVATORS AND DUMBWAITER work as shown on the drawings and as described herein, generally to include:

a) Nine (9) passenger elevators.

b) One (1) electric drum dumbwaiter, from First Floor to Third Floor.

All work under this Section shall comply with requirements of the Commonwealth of Massachusetts Elevator and Escalator Regulations ELV-2 as amended, except that if same conflict with local codes the more demanding regulation shall control.

2. WORK NOT INCLUDED

The following work shall be performed under other Sections:

a) Provide legal hoistways, pits, and machine rooms including concrete floors, machine foundations, and access doors, as shown in the Architects' Drawings, with adequate normal and emergency ventilation.

b) Cut all walls, floors, or partitions together with any repairs made necessary thereby.

c) Protect the erected hoistway entrance jambs with wooden bucks after the installation while work is in progress. Protect all finished, installed work.

d) Provide a continuous concrete sill-support for each passenger hoistway entrance located not more than two inches from the line of the sill nose and grout as necessary under the hoistway entrance sills.

e) Provide supports for guide rail brackets and elevator machine beams as located on the Architect's Drawings.

f) Provide guards and protection of the hoistway during the time the equipment is being erected.

g) Provide required waterproofing for elevator pits as indicated on the Architect's Drawings.

2. WORK NOT INCLUDED (Continued)

h) Provide and install as located on the Architectural and Structural Drawings all steel divider beam supports for guide rail brackets.

i) Provide and install electric feed wires to the terminals of the elevator controllers including main line fused disconnected switches and/or circuit breakers.

j) Provide requisite hoistway outlets for the car lights, machine room convenience receptacle, a separate 30 AMP., 3 Phase feeder with disconnect switch for the elevator signal equipment.

k) Provide permanent light fixture in pits with light switch.

l) Provide the required electric power for installing, testing and adjusting the elevator and signal equipment.

3. MAINTENANCE

The Elevator Sub-Contractor shall furnish maintenance on the entire equipment for a period of one (1) year from date of final acceptance. Maintenance shall include systematic examination, adjustments, repairs, replacements and lubrication of all elevator equipment.

4. GUARANTEE

The Elevator Sub-Contractor shall guarantee that the materials and workmanship of the apparatus installed by him under these Specifications shall be first-class in every respect and that he will make good any defects not due to ordinary wear and tear or improper use which may develop within one (1) year from date of completion.

5. DESCRIPTION OF EQUIPMENT - ELEVATORS P-1 THROUGH P-7

Quantity	Seven (7) Electric Passenger Elevators
Capacity	3500 Pounds
Speed	500 feet per minute
Travel in Feet	First to Ninth - Approximately 110 feet
Number of Landings	Nine (9)
Number of Openings	Nine (9) each
Operation	Group Automatic - With Attendant and Automatic Variable Programming Features
Control	Generator Field Control
Platform Size	P1 thru P6 - Approximately 7'-0" x 6'-2" P7 - Approximately 5'-4" x 8'-0"
Guide Rails	Steel - 15 pounds per foot car and 8 pounds per foot counterweight.
Buffers	Oil
Cab	Allowance P1 thru P6 - $5,000.00 net each P7 - $6,000.00 net
Hoistway Doors	Fifty-Six (56) Center-Opening 3'-6" x 7'-0" Seven (7) First Floor Entrances under $14,000.00 net allowance.
Car Doors	One (1) each Center-Opening 3'-6" x 7'-0"
Door Operation	High Speed Power with Electronic Door Control
Signals	Car Position Indicators, Waiting Passenger Lanterns at all landings, Call Acknowledging Lights in car and landing push buttons.
Machine Location	Overhead
Power Supply	480 Volts, 3 Phase, 60 Cycles

6. DESCRIPTION OF EQUIPMENT - ELEVATOR P-8

Quantity	One (1) Electric Passenger Elevator
Capacity	4500 Pounds
Speed	350 feet per minute
Travel in Feet	First to Ninth - Approximately 110 feet
Number of Landings	Nine (9)
Number of Openings	Nine (9)
Operation	Selective Collective Automatic with Key Operation and With Attendant Features
Control	Generator Field Control
Platform Size	Approximately 5'-10" x 9'-0"
Guide Rails	Steel - 15 pounds per foot car and 8 pounds per foot counterweight
Buffers	Oil
Cab	Allowance - $5,000.00 net
Hoistway Doors	Nine (9) Two-Speed 4'-0" x 7'-0"
Car Doors	One (1) Two-Speed 4'-0" x 7'-0"
Door Operation	High Speed Power with Photo-Electric Safety Ray
Signals	Car Position Indicator, Waiting Passenger Lanterns, Call Acknowledging Lights in car and landing push buttons.
Machine Location	Overhead
Power Supply	480 Volts, 2 Phase, 60 Cycles

7. DESCRIPTION OF EQUIPMENT - ELEVATOR P-9

Quantity	One (1) Electric Passenger Elevator
Capacity	3500 Pounds
Speed	350 feet per minute
Travel In Feet	First to Fifth - Approximately 62 feet
Number of landings	Two (2)
Number of openings	Two (2) - One (1) Reverse
Operation	Two Landing Collective Automatic
Control	Generator Field Control
Platform Size	Approximately 7'-0" x 6'-11"
Guide Rails	Steel - 15 pounds per foot car and 8 pounds per foot counterweight
Buffers	Oil
Cab	Allowance - $5,000.00
Hoistway Doors	Three (3) Center-Opening 3'-6" x 7'-0" (one entrance for blind hoistway access)
Car Doors	Two (2) Center-Opening 3'-6" x 7'-0"
Door Operation	High Speed Power with Electronic Door Control
Signals	Car Position Indicator, Call Acknowledging Lights in car and landing push buttons
Machine Location	Overhead
Power Supply	480 Volts, 3 Phase, 60 Cycles

SECTION 27

ESCALATORS

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the ESCALATOR work, as shown on the drawings and as specified.

2. CODES

All designs, clearances, construction, workmanship and materials, unless specifically excepted, shall be in accordance with the requirements of the A.S.E. Code and all codes having legal jurisdiction. The A.S.E. Code shall govern except where codes having legal jurisdiction include more rigid requirements or conflict with the A.S.E. Code.

3. WORK NOT INCLUDED

The following work shall be performed under other Sections:

a) Necessary openings in the floors, necessary supports for the truss and the necessary enclosure walls.

b) Outside balustrades.

c) Adequate arrangements for proper ventilation of the machine compartment.

d) Flooring over the machine compartment so arranged and constructed as to provide access to the machine room below and permit easy removal of the machines. The flooring shall include floor pans and supports, all sub-flooring and finished flooring including any special or exposed floor strips or supports.

e) Electric service to the controller in the machine compartment.

f) Power for construction, testing and adjustment of the same characteristic as the permanent supply.

g) Lighting in the machine compartment and the necessary wiring.

h) Electric convenience outlet in machine compartment, at the access panel and in the lower sprocket compartment.

i) Flooring where required over truss.

4. MAINTENANCE

This Sub-Contractor shall furnish regular maintenance service on each moving stairway completed under this contract for a period of three months after final acceptance. All work shall be done during regular working hours of regular working days. The work shall include regular examinations by trained employees and shall include all necessary adjustments, greasing, oiling and parts to keep the moving stairway equipment in operation, except those parts made necessary by misuse, accidents or negligence by parties other than the contractor.

5. GUARANTEE

This Sub-Contractor shall guarantee the material and workmanship of the equipment installed by him under these specifications and make good any defects not due to ordinary wear or to improper use which may develop within one year from date the contractor turns the installation over to the purchaser.

6. DESCRIPTION OF EQUIPMENT

Quantity	Width*	Floors Served	Vertical Rise Ft.	Vertical Rise In.
2	32"	From Second to Third Floor	9	3
2	32"	From ELV. 37'-3" to ELV. 44'-0"	6	9

POWER SUPPLY: 208 volts, 3 phase, 60 cycles, A.C. current.

* The width shall be measured between the inside balustrade at a point approximately 27 inches above the step tread.

The rated speed shall be 90 f.p.m.

7. TYPE

Each moving stairway shall be of the cleat step reversible type, capable of operating under full load conditions in either direction, for ascending or descending transportation service, and arranged to operate on an incline of 30 degrees from the horizontal. The moving stairway shall be designed to operate quietly and smoothly.

SECTION 28

PLUMBING WORK

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the PLUMBING WORK as shown on the drawings and as specified, generally to include:

a) Sanitary soil, waste and vent piping system, to a point 10 feet from building.

b) Acid resisting waste and vent piping system.

c) Storm water conductor piping system, to a point 10 feet from the building.

d) Cold water supply system, to a point 10 feet from building.

e) Hot water supply system.

f) Chilled water supply system.

g) Gas piping supply system, from New Congress Street main.

h) Emergency electric generator exhaust.

i) Soap piping.

j) Insulation.

k) Plumbing fixtures.

l) Floor and roof drains.

m) Toilet accessories.

n) Connections to fixtures and equipment furnished under other Sections of the Specifications.

2. REGULATIONS

All work shall conform to Plumbing Laws included in the Building Code of the City of Boston.

3. TESTING

Each system shall be tested in accordance with the requirements of the authority having jurisdiction.

4. MATERIALS

a) General: All materials shall be of American manufacture.

b) Sanitary Soil, Waste and Vent and Conductor Piping: Shall be extra heavy cast iron bell and spigot soil pipe conforming to A.S.A. A-40-1-1935. Piping installed underground shall be coated. Joints shall be made with oakum and caulking lead.

c) Acid Resisting Waste and Vent Piping: Shall be silicon iron pipe and fittings where buried, borosilicate pipe and fittings above ground.

d) Water Piping: All piping in cold, hot and chilled water systems shall be Type K heavy wall copper tubing conforming to Federal Specification WW-T-799. Fittings shall be cast bronze. Joints shall be made with 95% tin and 5% antimony solder.

e) Gas Piping: Shall be Schedule 40 seamless black mild steel pipe conforming to Federal Specification WW-P-403. Fittings shall be black malleable iron (threaded), 150 lb., Federal Specification WW-P-521.

f) Soap Piping: Shall be same as specified for gas piping.

g) Emergency Electric Generator Exhaust Piping: Shall be same as specified for gas piping.

h) Insulation: Water piping shall be insulated with fibrous glass molded pipe insulation with factory applied jacket and thickness as recommended for the service intended. Horizontal conductor piping shall be insulated same as water piping.

5. EQUIPMENT

a) Hot Water Storage Heater: Shall be ASME constructed of copper silicon alloy with internal steam coil.

b) Hot Water Circulating Pumps: Shall be electrically driven, all bronze body centrifugal pumps controlled by aquastats.

c) Drinking Water Chiller: Shall be factory packaged chilled water system consisting of insulated stainless steel cooling tank, refrigerating machine, circulating pump, all in a single housing, with necessary controls, wiring and freon to insure automatic operation.

d) Plumbing Fixtures: Shall be latest model of American Standard, Crane Co., or Kohler Co. All water closets and urinals to be wall hung.

SECTION 29

SPRINKLER WORK

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the SPRINKLER WORK as shown on the drawings and as specified, generally to include:

a) Two fire services to a point 10 feet from building.

b) Automatic sprinkler system for entire first floor area, except telephone and switchgear rooms.

c) Fire line and standpipe system, including angle valves in stairhalls and first aid hose cabinets.

2. REGULATIONS

All work shall conform to the Building Code of the City of Boston and the National Board of Fire Underwriters.

3. TESTING

Each system shall be tested in accordance with the requirements of the authority having jurisdiction.

4. MATERIALS

a) Piping to be black steel with cast iron threaded fittings approved by the National Board of Fire Underwriters.

b) Sprinkler Heads: Shall be of latest design spray type suitable for position in which they are installed.

c) Standpipe Angle Valves shall be installed in steel cabinets with full plate glass panel.

d) First Aid Fire Hose Cabinets shall be steel, with duo-panel, equipped with 75 feet of hose (pending waiver from 50 ft. code requirement).

e) Siamese Connections shall be flush type with brushed chrome finish.

SECTION 30

HEATING, VENTILATING AND AIR CONDITIONING

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the HEATING, VENTILATING AND AIR CONDITIONING work as shown on the drawings and as specified.

2. DESIGN CRITERIA

a) Winter indoor condition, 73 deg. DBT, 30% R.H.

b) Winter outdoor condition, -10 deg. F., 25 mph wind vel., 65% R.H.

c) Summer indoor condition, 76 deg. D.B.T., 50% R.H.

d) Summer outdoor condition, 95 deg. D.B.T., 78 deg. W.B.T.

3. DESCRIPTION OF SYSTEMS

a) Outer Perimeter, Upper Structure - Three pipe high velocity induction systems (4). Induction units located in horizontal fenestration band. Each bay individually thermostatically controlled. High Pressure fans and filtration equipment in two (2) roof penthouses.

b) Interior Zones, Upper Structure - One duct high velocity, variable volume main distribution systems (4). Termination in automatic air valves and sound attenuators. Each 15 ft. bay controlled by individual thermostat if required by partitioning. Complete outlet flexibility for partitioning changes. Final air discharge through low velocity branch ductwork integrated with structural overhead. Return air system parallel to supply system, originating low pressure, transition to high velocity mains through attenuator and air valve.

c) Inner Perimeter, Permanent Corridors. Low velocity air from structural overhead, on reheat branch.

d) Lower (mound) Structure - A series of one duct high velocity variable volume system, similar to those in the interior zones of the upper structure. Each major functional zone shall be on a central unit. Each 14'-4" bay shall be controllable by thermostat if required by partitioning. Where mound structure had heat loss perimeter, hot water radiation shall be installed. All equipment for mound structure shall be located in main mechanical space.

3. DESCRIPTION OF SYSTEMS (Continued)

e) Ventilation - All systems shall supply as a minimum a continuous amount of fresh, filtered air as required by Codes and good practice as stated by the American Society of Heating and Air Conditioning Engineers. Provision shall be made to utilize outdoor air for cooling whenever outdoor conditions permit. When conditions do not permit, mechanical cooling (refrigeration) shall be used. Cooling towers shall be designed for winter operation.

f) Operating Controls - Operation of all equipment shall be automatically controlled from a Master Control Console located in the Custodial Area. Console shall have monitoring and recording devices for all portions of the systems.

g) Sub-Systems

(1) Hot water heating - Edison steam, heat exchangers.

(2) Water Chilling - Edison steam, absorption chillers.

(3) Steam Condensate - Electric return pumps and receivers.

(4) Toilet exhaust - Centrifugal fans on roof.

(5) Transformer vault exhaust - centrifugal, ducted system.

SECTION 31

ELECTRICAL WORK

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the ELECTRICAL WORK as shown on the drawings and as specified.

2. DESCRIPTION OF SYSTEMS

a) Electric Service. The Boston Edison Company will furnish and install four (4) 1500 K.V.A., 13.8 KV-277/480V, askerel (Non-inflammable) insulated network type transformers in a transformer room located on the first floor adjacent to the garage area. Only three (3) of these transformers are required to carry the entire load of the building, the fourth transformer being spare. This assures continuity of service at full load in the event of the failure of a transformer or of a Boston Edison Company 13.8 K.V. feeder thereto.

13.8 K.V. Primary feeders (one per each transformer) will be installed underground, from a Boston Edison Company manhole located in New Congress Street, to the transformer room. These feeders will be "joint use", i.e., will serve other customers in the Government Center area, and will originate from the rebuilt Hawkins Street, Boston Edison Company substation.

The above system will provide an electric service with a higher order of reliability.

The design and installation of the equipment within the transformer room shall be in accordance with Boston Edison Company standards.

b) Main Switchboard. The secondaries of each of two transformers will be bussed together and connected to a main circuit breaker installed on the main switchboard. There are two such combinations, each one supplying energy to one-half of the switchboard, which is located adjacent to the transformer room.

A spot network switchboard arrangement will be installed with a tie circuit breaker connecting the main busses of both sections of the switchboard. The tie circuit breaker will be operated normally open in order to minimize short circuit currents in the event of a fault and will also be electrically interlocked with the network protectors on the Boston Edison Company transformers so that in the event of the loss of one of the four transformers for any reason said tie circuit breaker will automatically close and permit continuity of operation at full load.

2. DESCRIPTION OF SYSTEMS (Continued)

Feeder circuit breakers installed on the main switchboard will be of the draw-out type, consisting of a combination of low voltage power circuit breakers and current limiting fuses, coordinated in a manner that with the occurrence of a short circuit on any one of the feeders, either the circuit breaker element or the current limiting fuses will open (dependent on the magnitude of the fault) and isolate the faulted feeder without interruption of service to the remaining feeders.

Spaces will be provided in the main switchboard to permit the installation of a limited number of circuit breakers in the future.

Space within the switchboard room will be provided to permit extension of the switchboard at both ends for installation of circuit breakers over and above the number to be installed on the switchboard under the initial construction.

c) Meters and Metering. A voltmeter, voltmeter switch, ammeter, ammeter switch with associated necessary current transformers will be provided on each of the two sections of the main switchboard.

The Boston Edison Company will provide the metering current transformers for installation by the switchboard manufacturer on the load side of each of the main circuit breakers. Kilo-watt demand, kilo-volt-ampere, and kilo-watt hour meters will be provided and installed by Boston Edison Company on a wall mounted plywood meter panel located in the switchboard room.

d) Service Characteristics. The prime utilization voltage obtained from the secondaries of the network transformers will be 277/480 volts, 3 phase, 4 wire solid neutral, 60 cycle a.c.

The selection of 277/480 volts in lieu of 120/208 volts was made because of the substantial savings in the initial costs of a 277/480 volt distribution system as compared with a system of 120/208 volts.

Fluorescent lighting will be operated directly from the prime utilization voltage of 277 volts.

Motor loads (approximately 1,600 horsepower for the H.V. and A.C. systems plus 470 horsepower for elevators) will be operated from the prime utilization voltage of 480 volts.

Incandescent lighting, office machines, small motors (less than ½ horsepower) will be operated at 120 volts which voltage will be obtained by the installation of 480-120/208 volt dry-type transformers located at points of demand.

2. DESCRIPTION OF SYSTEMS (Continued)

e) Secondary Distribution. Four wire shafts will be provided, one each in each of the four "core areas" of the building plus an additional shaft in the three floor complex located in the northeast corner.

In general, electric closets, four on each floor, will be located in the "core areas".

Feeders, originating at the main and/or normal-emergency switchboard, consisting of either bus-duct or conduit and wires will rise vertically up each of the above wire shafts. The feeders will be tapped at each floor or as required to feed lighting panelboards, dry type transformers and 120/208 volt panelboards. Dry type transformers will be installed within the electric closets. Feeders will be sized to limit the voltage drop to conform to Code requirements and good engineering practice. Excess feeder capacity will be provided to permit a future increase in load of approximately 20 percent. The design will be such that additional feeders may be installed at a later date if expanded load requirements make it necessary.

Lighting panelboards will in general be located within the electric closets only. Panelboards for 120/208 volt incandescent lighting, office machines and receptacles will be located within the electric closets and at several other outlying locations on each floor. The use of 277/480 volts for fluorescent lighting allows the installation of panelboards for this system only in the wire closets. Because of the large areas and long branch circuit runs with attendant voltage loss it is necessary to provide panelboards for 120/208 volt system not only in the wire closets but also at other locations on each floor.

All panelboards, in general, will be of the circuit breaker type. A minimum number of spare circuit breakers, in addition to an adequate number of spaces only will be provided in each panelboard. This will permit the Owner to install additional circuit breakers at a future date to serve future load growth, all in accordance with good engineering practice.

f) Power System

(1) Building Service Power.

Elevators will be supplied with power at 480 volts, 3 phase, 60 cycle by feeders, consisting of conduits and wiring, from the main switchboard on the first floor, to circuit breaker type panelboards located within the elevator machine rooms. Branch power wiring will be installed therefrom to the elevator motor controllers. All other power and control wiring associated with the elevators will be provided under the elevator contract.

2. DESCRIPTION OF SYSTEMS (Continued)

f) Power System (Continued)

(1) Building Service Power (Continued)

The majority of the heating, ventilating and air conditioning motors will be located in the first floor mechanical equipment room or in one of the four mechanical rooms located on the roof. Feeders at 480 volts, of conduit and wires, will be installed from the main switchboard on the first floor to motor control centers, furnished under the heating, ventilating and air conditioning contract, but installed and wired under electrical contract, located in each of the areas. Branch circuit power wiring will be provided from the motor control centers to each motor or other load. All control wiring associated with the control of the heating, ventilating and air conditioning equipment will be provided under said contract.

(2) Special Power

The only special power requirements presently known is for CEDP. A 480V-120/208V dry type transformer fed from the main switchboard will be installed within the main switchboard room. A 120/208 volt feeder will be installed therefrom to a circuit breaker type panelboard located in the CEDP room on the second floor immediately above the main switchboard room. The transformer, feeder and panelboard will be adequately sized to serve presently known and immediate foreseeable future requirements. The proximity of the CEDP room to the main switchboard allows for easy expansion of the electrical distribution system to the area with minimum expense.

g) Lighting System

A lighting system utilizing various types of fluorescent and incandescent fixtures will be installed to provide illumination of a good quality and adequate intensity. The system will be integrated with the structure and will compliment the architectural elements of the building in every detail to the complete satisfaction of the Architects.

Intensities of the following approximate values will be provided:

Offices	60-65	F.C.
Corridors	30-35	F.C.
Stairs	30-35	F.C.
Lobbies	25-35	F.C.
Machine Rooms	20-25	F.C.
Ceremonial Areas	35-60	F.C.
Storage Rooms	10	F.C.

2. DESCRIPTION OF SYSTEMS (Continued)

g) Lighting System (Continued)

The lighting in all small areas will be controlled by local switches. Lighting in large "open" office areas will be contactor controlled in relatively large groups from switches located at the entrance from the corridor, etc. Corridor and elevator lobby, etc., lighting will be controlled locally as well as from a central control panel located in the Superintendent's office. Stair lighting and lighting in large public spaces will be controlled only from the control panel.

h) DELETED

i) Underfloor Raceway System

A two-cell underfloor raceway header system shall be installed in all office areas, machine rooms, etc., in the "fill" placed on top of the structural slab. One header system will be utilized to feed floor fittings for 120 volt convenience receptacles serving portable office machines and fixed office machines. The second header system will be utilized by the New England Tel. and Tel. Company for their wiring system to serve instruments through suitable floor fittings.

In general, pairs of cells will be installed on a modular basis, 7'-6" on centers, a maximum spacing to provide reasonably adequate coverage and flexibility. Spacing of cells in certain special areas, such as CEDP, where service requirements are greater, will be 5'-0" on centers.

2. DESCRIPTION OF SYSTEMS (Continued)

i) Underfloor Raceway System (Continued)

Access to the cells will be via the header ducts installed at right angles to the cells. One of the header ducts will be connected to the 120/208 volt panelboards located within and without the electric closets. The second of the header ducts will be terminated in the telephone closets and in telephone cabinets provided in areas remote from the closets.

Floor outlets may be installed at any time and at any location along the cells as required.

j) Telephone Raceway System

A system of empty conduits will be provided from the property line to two frame rooms located on the first floor and thence to telephone closets located in each core generally on each floor of the building.

Where telephone closets occur vertically one over the other, sleeves only will be provided through the structural floors. On certain floors where the areas to be served are large, additional telephone closets will be installed located between the telephone closets on the floors. Empty conduits will be provided from such out-lying cabinets to the nearest telephone closet. All conduits, cabinets, etc., will be sized in accordance with N. E. T. & T. Co. requirements and recommendations. Frame rooms and closets are provided to house all N. E. T. & T. Co. equipment therein. No switching apparatus need be installed in finished areas.

Wiring from telephone closets and/or cabinets to instruments will be installed by N. E. T. & T. Co. generally in the underfloor raceway system.

All wiring, cabling and apparatus will be furnished and installed by the N. E. T. & T. Co.

k) Master Clock System

A clock system of the electronic type will be provided. A signal generator will be provided and installed in the main switchboard room on the first floor. A master clock will provide automatic electronic supervision of all clocks without wiring between the master and each clock. The master clock will be installed in the Superintendent's Office located on the first floor. Clocks will be provided in Conference Rooms.

Wall and/or ceiling mounting clocks will be provided in large general office areas, laboratories, machine rooms and other special areas.

Clocks of special design will be provided in main lobby on the fourth floor.

2. DESCRIPTION OF SYSTEMS (Continued)

k) Master Clock System (Continued)

In general, no clocks will be provided in private offices except in the mayoral and councilar areas.

All clocks will be of the electronic type connected to an unswitched 277 volt circuit. With this system additional clocks may be added in the future simply by wiring from the clock to the nearest lighting outlet containing an unswitched circuit.

l) Fire Alarm Systems

A zoned city connected fire alarm system will be provided to sound internal gongs to evacuate the building and to summon the city fire department in the event of a fire. A system of conduits and wire risers will be installed up each of the wire shafts with terminal cabinets located on each floor in each shaft for extension to the fire alarm equipment located on the floors.

A master fire alarm station will be provided and located in the Superintendent's office on the first floor.

An annunciator will be installed at a central location to indicate the zone from which a station is activated and therefore the location of a fire.

Manual stations will be installed on each floor at the entrance to the stairs, one at each stairway.

Automatic stations will be installed in mechanical, storage and machine rooms. Gongs will be installed on each floor.

m) Audio Systems

(1) A separate local audio system will be provided for the council chamber to amplify proceedings taking place therein for all present to hear.

Microphones will be provided for the Council President, each of the Councillars and for witnesses.

Provision for the taping and broadcasting of taped messages will be incorporated. Speakers will be strategically located to provide good sound distribution throughout the chamber.

(2) A zoned audio system will be installed to cover areas in the entire building, except the Council Chamber. A sufficient number of speakers adequate for distribution of voice but not music will be located throughout the building.

2. DESCRIPTION OF SYSTEMS (Continued)

m) Audio Systems (Continued)

The system will function for voice paging, emergency announcements, delivering of messages, and for sounding of civil defense air raid signals. Microphones will be installed in the Mayor's T.V. Studio, Emergency Command Center and at one of the telephone switchboards.

Paging from telephone operator's position via selector switch to permit paging into one or several departments or by an "all-call".

Initiation of announcements, emergency messages and speeches from microphones located in Emergency Command Center and Mayor's T.V. Studio.

Initiation of air raid warning signals from Emergency Command Center.

Racks with main equipment will be located in the Superintendent's Office on the first floor.

Risers will be installed up the South wire shaft with equipment located within the individual floor electric closets, with conduits to speakers located on the various floors.

Speakers in general will be ceiling mounted and will be located generally only in large areas. No speakers will be provided in small offices, conference rooms, etc.

n) T. V. Systems

(1) T. V. Origination System will be provided consisting of conduits, cables, terminal boxes with connectors, and equipment consisting of modulator and patch panels for audio, video and camera, to permit taping or origination of "live" T.V. programs from the Mayor's T. V. Studio, Council Chamber and from two points in the main lobby on the fourth floor.

A T. V. equipment room will be provided on the first floor adjacent to the truck loading dock. Patch panels, modulator and power source will be installed therein. This will permit a mobile commercial T.V. Unit to drive into the loading dock area and plug into terminal facilities within the T. V. Equipment Room or portable equipment can be brought into and set up within the room.

Either of these will permit tape or "live" broadcasting. Transmission from the equipment room to a commercial T. V. Studio will be over leased telephone lines.

2. DESCRIPTION OF SYSTEMS (Continued)

n) T. V. Systems (Continued)

A system of power outlets will be provided in the T. V. Studio and in the Council Chamber to permit the installation of portable lighting equipment as provided by the commercial T. V. Company initiating the broadcast.

(2) T. V. Reception System - A system of small diameter empty conduits will be provided from the electric closets on each floor to an approximate total of 100 outlet locations, scattered throughout the building for future T. V. use. This system of conduits embedded in the structure now will eliminate the installation in the future, of such conduits exposed with necessary associated cutting.

Such a system will permit:

a. Off-air reception (Channel 2, 4, 5 & 7).

b. Closed circuit T. V. reception and/or origination.

c. Remote T. V. Cameras and receivers can be utilized for data transmission and for surveillance of entrances and strategic areas at night by one person from a central location.

All necessary equipment for such on installation can be installed in the T. V. equipment room located on the first floor which is being provided for T. V. origination now.

Antenna required for off-air reception can be installed later on the roof. Conduit for antenna lead-in can be installed down one of the wire shafts to the T. V. Equipment Room.

Conduit for distribution from the T. V. Equipment Room to electric closets can also be installed up wire shafts.

o) Lightning Protection

A system for protection against lightning stroke will be provided consisting of the necessary points, down leads, etc., to obtain a Master Label. The system will utilize the grounding provided for the electrical systems.

p) Grounding Systems

A grounding system will be provided consisting of configurations of driven ground rods and/or cones at intervals around and outside the perimeter walls, bonded together with bare copper cable and bonded to water mains on street side of water meter.

2. DESCRIPTION OF SYSTEMS (Continued)

p) Grounding Systems (Continued)

A bare ground wire will be provided up each wire shaft for equipment grounding. An insulated ground wire will be provided up each shaft for neutral ground.

q) Carbon Monoxide System

Provide required number of detectors and audible and visible alarm devices for detection and warning of dangerous concentration of carbon monoxide gas in the garage area.

r) Radio Antenna System

Provide an empty conduit system for future radio antennae and lead-ins between the Emergency Command Center and the roof. All equipment and wiring by the Owner.

PLAZA
Boston City Hall
Boston
28 January 1963

OUTLINE SPECIFICATIONS

for the

PLAZA Surrounding The NEW BOSTON CITY HALL

Section

1. Site Preparation . . . .
2. Concrete Work . . . .
3. Brick Paving and Terraces . . . .
4. Granite Steps . . . .
5. Storm Drainage . . . .
6. Plaza Electric Lighting . . . .
7. Landscaping . . . .

SECTION 1

SITE PREPARATION

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the Excavation, Filling, Grading and other Site Work as shown on the drawings and as specified, generally to include:

a) Site preparation and removal of underground structure within the area of the Plaza and not within the building line of the New City Hall as required (Foundation Walls, Footings, Slabs, Subway Structures). Salvage materials shall become the property of the Contractor.

b) Protection of all existing utilities which are to remain and removal of all existing utilities not scheduled for reuse.

c) Protection of new and existing subways.

d) Removal and disposal of rubble and objectionable materials.

e) Excavation, trenching and related work.

f) Sheet piling and/or shoring such portions of excavations or fills as may be required.

g) Pumping and/or bailing, including well point system necessary to maintain excavated spaces free from water; from any source whatsoever.

h) Compacted structural fills and backfilling.

i) Subgrade preparation.

SECTION 2

CONCRETE WORK

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the CONCRETE WORK, as shown on the drawings and as specified, generally to include:

a) All footings for columns in the supported area of the Plaza.

b) Reinforced concrete slab where required to support Plaza masonry or landscaping.

c) Concrete tests.

d) Shop drawings.

e) Samples.

f) Winter protection.

PLAZA
Boston City Hall
Boston
28 January 1963

SECTION 3

BRICK PAVING AND TERRACES

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the BRICK PAVING AND TERRACES, as shown on the drawings and as specified, generally to include:

a) Brick paving on slabs and on grade.

b) Exterior masonry enclosure around subway entrance.

c) Masonry enclosures for Plaza Lighting.

d) Furnish and install all reinforcing, ties and anchors required for securing all masonry work together.

e) Expansion joints.

f) Erection of sample masonry panels and submission of samples as called for by the Architect.

2. MATERIALS

a) Portland Cement - - Shall conform to A.S.T.M. specification C150-56, Type II.

b) Lime - - Shall conform to A.S.T.M. specification C207-49, Type S.

c) Sand - - Shall conform to A.S.T.M. specification C144-52T.

d) Face Brick shall conform to A.S.T.M. specification C62-50, grade SW for clay or shale brick and exhibit no efflorescence when subjected to A.S.T.M. test C 67-50 for a period of 7 days.

e) Anchor and anchor slots shall be dovetail galvanized sheet steel. Install wherever brick butt against concrete walls or columns.

3. INSTALLATION

a) The Plaza brick will be set in a bed of sand with the joints filled with sand.

STATE JOINT [illegible]
[illegible]

SECTION 4

GRANITE STEPS

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the GRANITE STEPS as shown on the drawings and as specified, generally to include:

a) Supply and install 16" x 6", 4-cut treads and 6 cut risers in a grey granite. Exact color and finish to be selected by the Architect. Treads and risers to be set in grout.

SECTION 5

STORM DRAINAGE

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the STORM DRAINAGE as specified, generally to include:

a) Bituminous concrete drainage trenches.

b) Cast iron drains with ductile iron grates.

c) Connections to City Storm Sewers.

d) Yard hydrants.

e) Sub-surface drains.

SECTION 6

PLAZA ELECTRIC LIGHTING

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the PLAZA ELECTRIC LIGHTING as specified, generally to include:

a) Lighting Fixtures.

b) Wiring.

c) Accessories.

d) Waterproof outlets, as required.

SECTION 7

LANDSCAPING

1. SCOPE OF WORK

Provide all labor, materials and equipment necessary to complete the LANDSCAPING work as shown on the drawings and as specified, generally to include:

a) Preparation of subsoil and top soil to receive planted material.

b) Installation of gravel as required for drainage of tree wells.

c) Furnishing and planting 8" caliper, Linden trees (Tilia cordata).

ENGINEERING COST ESTIMATE

PROPOSED BUILDING CONSTRUCTION

NEW CITY HALL - BOSTON, MASSACHUSETTS

ARCHITECTS & ENGINEERS
FOR BOSTON CITY HALL

LESLIE M. BUCKINGHAM, JR.
CONSULTING ENGINEER - ESTIMATOR
28 January 1963

28 January 1963

PROPOSED NEW BOSTON CITY HALL

ARCHITECTS & ENGINEERS FOR THE BOSTON CITY HALL

ENGINEERING COST ESTIMATE

BUILDING CONSTRUCTION

NUMBER		SUB-TOTAL	TOTAL
1.	PRIME CONTRACTOR'S WORK	$ 6,637,233.	$ 6,637,233.
2.	SUB CONTRACTOR'S WORK	8,276,674.	8,276,674.
			14,913,907.
3.	CONTINGENCIES		
A.	INCREASED LABOR & MATERIAL COSTS (36 MONTHS)		
	PRIME CONTRACTOR'S COST (5%)	315,000.	
	SUB CONTRACT COST (5%)	195,000.	
	PLUMBING (4%)	13,000.	
	HEATING, VENTILATION, AIR CONDITION (8%)	155,546.	
	ELECTRICAL (3.9%)	60,000.	738,546.
			$ 15,652,453.
B.	ADDITIONAL ARCHITECTURAL CONTINGENCY		287,296.
			$ 15,939,749.
C.	OVERTIME PREMIUM (ALLOW)		60,251.
	TOTAL ESTIMATE CONSTRUCTION COST		$ 16,000,000.

28 January 1963

PROPOSED NEW BOSTON CITY HALL
ARCHITECTS & ENGINEERS FOR THE BOSTON CITY HALL

ENGINEERING COST ESTIMATE

RECAPITULATION	SUB-TOTAL	TOTAL
PRIME CONTRACTOR'S WORK & FEES		
Excavation and Fill	$ 193,800.	
Pile Foundation (Sub.)	(SUBLIST)	
Concrete Work	4,325,865.	
Reinforcing Steel (Sub.)	(SUBLIST)	
Mason Work	402,983.	
Carpentry, Rough	165,820.	
Millwork	(SUBLIST)	
Job Conditions & Set Up (Total Job Cost)	278,200.	
Job Supervision " " "	102,500.	
Liability Insurance and Taxes (Total Job Cost)	475,625.	
Contractor's Overhead " " "	175,000.	
Contractor's Profit " " "	437,440.	
Bond Premium " " "	80,000.	
TOTAL PRIME CONTRACTOR'S COSTS		$ 6,637,233.
SUB-CONTRACTOR'S WORK		
Pile Foundation, and Caps	$ 1,158,510.	
Reinforcing Steel	1,000,000.	
Millwork (APPROX.)	50,000.	
Structural Steel	100,000.	
Cement Waterproofing	74,000.	
Waterproofing and Dampproofing	25,700.	
Roofing and Metal	97,750.	
Metal Windows	119,340.	
Glass and Glazing	130,906.	
Metal Doors and Frames	82,770.	
Special Doors	20,000.	
Caulking	14,600.	
Miscellaneous Metals and Specialties	231,050.	
Thermal Insulation	8,500.	
Furring, Lathing and Plaster	37,000.	
Semi-Terrazzo	35,647.	
Ceramic Tile	51,752.	
Floor Covering	100,000.	
Metal Toilet Compartment	6,500.	
Fixed Partitions	148,500.	
Miscellaneous Equipment	15,000.	
Finish Hardware	90,000.	
Painting	150,000.	
Food Service Equipment	1,000.	
Mail Boxes and Chutes	15,000.	

28 January 1963

PROPOSED NEW BOSTON CITY HALL
ARCHITECTS & ENGINEERS FOR THE BOSTON CITY HALL

	SUB-TOTAL	TOTAL
SUB-BIDS (CONTINUED)		
Elevators	614,000.	
Escalators	126,000.	$ 4,503,525.
MECHANICAL AND ELECTRICAL		
Plumbing & Sprinkler	$ 325,000.	
Heating, Ventilation and Air Conditioning	1,923,149.	
Electrical Work	1,525,000.	$ 3,773,149.
TOTAL ESTIMATED CONSTRUCTION COST		$ 14,913,907.

COST ESTIMATE

for the

PLAZA

SURROUNDING THE NEW CITY HALL - BOSTON, MASSACHUSETTS

ARCHITECTS & ENGINEERS

FOR BOSTON CITY HALL

LESLIE M. BUCKINGHAM, JR.

CONSULTING ENGINEER - ESTIMATOR

28 January 1963

28 January 1963

PLAZA
NEW CITY HALL - BOSTON, MASSACHUSETTS
ARCHITECTS & ENGINEERS FOR BOSTON CITY HALL

COST ESTIMATE

TOTAL PLAZA AREA = 425,200 SF
PLAZA AREA MINUS EDIFICE = 346,500

RECAPITULATION OF ESTIMATE	SUB TOTAL	TOTAL
SITE PREPARATION	131,258	
CONCRETE WORK	682,650	
BRICK PAVING (DRY BRICK)	393,184	
GRANITE STEPS (GREY)	259,700	
BRICK MOUND TERRACE	76,420	
STORM DRAINAGE	40,000	
PLAZA ELECTRIC LIGHTING	80,000	
LANDSCAPING	72,000	$ 1,735,212
INDIRECT COSTS (PRIME)		171,400
		$ 1,906,612
PLANNING STAGE CONTINGENCY (1 YR.) (2%)		37,932
		$ 1,944,544
BUILDING STAGE CONTINGENCY (8-10 MOS.) (1%)		19,345
		$ 1,963,889
PRELIMINARY-FINAL DRAWINGS (DETAILS, ETC.) (4%)		78,155
TOTAL ESTIMATED CONSTRUCTION COST		$ 2,042,044

NOTE: This estimate does not include the cost of the bridges to Dock Square from the City Hall Plaza, or any work beyond the Western Boundary of New Congress Street or the Northern Boundaries of Parcel 8 and Parcel 9.

PLAZA
NEW CITY HALL - BOSTON, MASSACHUSETTS
ARCHITECTS & ENGINEERS FOR BOSTON CITY HALL

COST ESTIMATE

PLAN DATED AUGUST 31, 1962
PLAZA AREA (GROSS - 425,200 SF)

SITE PREPARATION	QUANTITY	U	UNIT PRICE	TOTAL
Clear and Excavate Unclassified Material	425,200	SF	$ .13	$ 55,276
Dispose of Unclassified Material	425,200	SF	.02	8,504
Rough Grading (Posted Areas)	240,000	SF	.05	12,000
Fine Grading (Posted Areas)	240,000	SF	.015	3,600
Compacted Fill, Selected Gravel	20,000	CY	2.00	40,000
Fine Grading (Fill Area)	20,000	CY	.10	2,000
Partial Unknown Demolition	425,200	SF	.015	6,378
Clean Up Site for Paving	425,200	SF	-	3,500
				$ 131,258

CONCRETE WORK
CONCEALED AREAS, UNFINISHED CONCRETE
TYPICAL BAY 14 X 14

Column Footing	32	CF	$22.
Column	16	CF	11.
Column Cap.	7	CF	5.
6" Concrete Slab	78	CF	55.
Footing Forms	32	SF	13.
Column Form	64	SF	42.
Column Cap.	30	SF	23.
Slab Forms	156		78.
Reinf. Steel	800	LB	96.
Rough Finish Slab	156	SF	8.
Exp. & Const. Joints	156	SF	10.
Hand Excava. Foot.	2	CY	8.
156 SF =			$371.
Cost/S.F. =			$2.38

Large Supported Area	240,000	SF	2.38	571,000

FOUNDATION WALL

Supp. Area	2,200	LF	19.00	41,800

CONCRETE WORK (On Fill)	QUANTITY	U	UNIT PRICE	TOTAL
6" Concrete Slab on Fill	55,000	SF	$ .35	$ 19,250
Reinforcing Slab	55,000	SF	.21	11,550
Rough Finish Slab	55,000	SF	.05	2,750
Contraction & Expansion Joints	55,000	SF	.04	2,200
CONCRETE FOR GRANITE STEPS				
Concrete Risers	23,000	SF	.40	9,200
Riser Forms	23,000	SF	.80	18,400
Reinforcing	23,000	SF	.30	6,900
				$ 682,650
BRICK PAVING (Laid Dry) (60 BR/SY)				
1½"-2" Sand Cushion	35,200	SY	.22	7,744
Brick Delivered (85M)	35,200	SY	5.20	183,040
Waste & Breakage - 3%	35,200	SY	.15	5,280
LABOR-PAVING (400-500 BR/BAY)				
Unload, Stack & Cull	35,200	SY	.10	3,520
Lay Dry Brick	35,200	SY	4.75	167,200
Cutting & Fitting (Stairs)	35,200	SY	.15	5,280
Rolling Brick	35,200	SY	.10	3,520
Wash Down & Clean Up	35,200	SY	.50	17,600
				$ 393,184
GRANITE STEPS (16" x 6") (4-Cut Tread - 6 Cut Riser)				
16" / 4½" Granite Tread & Riser (Grey)	23,000	LF	9.60	220,800
Expansion Strips	11,000	LF	.20	2,200
Grout & Bedding	40,000	LF	.20	8,000
LABOR-SETTING				
Unload, Stack, Etc.	23,000	LF	.03	690
Labor Setting Stone	23,000	LF	1.10	25,300
Clean & Point Joints	23,000	LF	.05	1,150
Wash Down	23,000	LF	.02	460
Expansion Strips	11,000	LF	.10	1,100
				$ 259,700

	QUANTITY	U	PRICE	TOTAL
BRICK MOUND TERRACE				
Prepare Sub-Grade	10,000	SF	$ .05	$ 500
CONCRETE RISERS & TREADS				
6" Concrete	12,800	SF	.50	6,400
Riser Forms	7,500	SF	1.00	7,500
Rough Finish	12,800	SF	.10	1,280
Partial Support	12,800	SF	.35	4,480
Reinforcing Steel	12,800	SF	.30	3,840
Contraction & Expansion Joints	12,800	SF	.10	1,280
Retaining Wall	130	LF	20.00	2,600
BRICKWORK				
Brick Delivered (85M)	15,500	SF	.51	7,905
Waste 5%	15,500	SF	.03	465
Labor				
Unload, Stack & Cull.	15,500	SF	.02	310
Cement Mortar, Etc.	15,500	SF	.08	1,085
Lay Brick C.M.	15,500	SF	1.20	18,600
Cutting & Fitting (Intersect)	15,500	SF	.05	775
Staging at Wall	130	LF	-	300
Pointing, Washing & Cleaning	15,500	SF	.20	3,100
Crush Stone Fill	4,000	CY	4.00	16,000
				$ 76,420

STORM DRAINAGE	
Drains, Piping, Connection to City Storm Sewers and Yard Hydrants	$ 40,000
PLAZA ELECTRIC LIGHTING	
Including Fixtures, Accessories and Wiring	$ 70,000
LANDSCAPING	
90 - 8" Linden Trees @ $ 800.00 planted with allowance for enclosure	$ 72,000

(BASED UPON - SINGLE CONTRACT.)

	SUB TOTAL	TOTAL
INDIRECT COSTS GENERAL & SPECIAL CONDITIONS		
Trucking Equipment, Tools	$ 1,500	
Contractor's Trailer	1,000	
Storage Sheds	1,500	
Job Telephone	1,800	
Sanitary Facilities	600	
Temporary Light, Power and Water	2,000	
Engineer - Grades - (1 Month)	700	
Lines, Batter Boards	500	
Concrete Tests, Gravel, Etc.	1,800	
Lights, Signs, Etc.	800	
Fence Off Area (6'-0") (3000 LF)	10,500	
Gates & Entrances	1,200	
Canvas & Weather Protection	2,500	
Access Roads, Storage Space	2,000	
Special Power Equipment	1,500	
General Cleaning Up Area	3,500	$ 33,400.
CONTRACTOR'S SUPERVISION & PROTECTION		
Supervision ($800.00 Month)	10,000	
Watchman (16 Hrs./Day - 5 Months)	4,500	
Assist. Supervision (3 Months - $500.00/Month)	1,500	$ 16,000
LIABILITY INS., TAXES, H. & W. (18% Labor)	45,000	$ 45,000
CONTRACTOR'S OFFICE OVERHEAD - 1½%	28,000	$ 28,000
CONTRACTOR'S PROFIT - 2%	36,000	$ 36,000
BOND PREMIUM - 70%	13,000	$ 13,000
		$ 171,400

Boston City Hall
Boston
28 January 1963

DESCRIPTION OF MATERIALS FOR THE
NEW BOSTON CITY HALL

The following Description briefly indicates the materials used in exposed locations in the New Boston City Hall. This Description compliments the Preliminary Specifications and Preliminary Finish Schedule dated 28 January 1963. Information covered briefly in this Description may be found in greater detail in these other two documents.

The Preliminary Cost Estimate dated 28 January 1963 is based on the materials described on the following pages.

This Description does not include minor items which are found in greater detail in the Preliminary Specifications.

The Description is broken into two Divisions, "Exterior Materials" and "Interior Materials". In the preface to each Division each material is listed briefly. In the text that follows the preface the materials and their locations are described in greater detail.

Boston City Hall
Boston
28 January 1963

EXTERIOR MATERIALS

Plaza Paving - Brick

Plaza Steps - Granite

Lower Structure Exterior Walls - Brick

Lower Structure Roof for Pedestrian Traffic - Brick

Exterior Structure - Concrete

Exterior Fins, Spandrel Facing, and certain monumental Window Frames - Precast Concrete

Metal Window Frames - Duranodic Aluminum

Window Inductron Unit Covers - Duranodic Aluminum

Windows - Gray Glass

Exterior Doors - Herculite in Bronze Frames and Hollow Metal

Exterior Garage Doors - Slatted Steel Door

Council Escape Stairs - Brick

Roofing - 20 year Bond Built-up Roofing

Flashing - Lead Coated Copper

Skylights - Painted Steel Frame with Wire Glass

Balcony Floor - Quarry Tile

Plaza Paving Brick - The Plaza brick is in the price range of $80. to $90. per 1,000 for material. A variety of bricks are being considered principally waterstruck bricks. The Plaza brick is set in sand over a concrete slab, except for occupied areas. Above occupied areas it is set in mortar, above a waterproof membrane, on a concrete slab.

Plaza Granite Steps - The Plaza steps are 16" x 6", 4-cut tread, - 6 cut riser grey granite, set in grout.

Lower Structure Exterior Brick Walls - The exterior brick walls are in the $80. to $90. per 1,000 price range. Bricks similar to the Plaza brick are being considered. These bricks are set in mortar. The color of the mortar is to be determined.

DESCRIPTION - EXTERIOR MATERIALS

Lower Structure Roof Brick Paving for Pedestrian Traffic - Brick Paving similar to the Plaza paving set in mortar, above a waterproof membrane, on a concrete slab, will be used for the Lower Structure Roof for Pedestrian Traffic.

Exterior Concrete Structure - The exterior, exposed, poured in place, reinforced, concrete contains Type I Cement (light colored cement). The texture of the finish is still under study. The poured in place elements are the columns, the structural slab and some parts of the Ceremonial Floor.

Precast Exterior Concrete Fins, Spandrel Facing and, certain Monumental Window Frames - The exposed concrete fins and Spandrel Facing are reinforced concrete made with Type II Cement (dark colored cement). These units will have a textured finish. The texture is still under study. The South Hall, North Entrance at the 2nd Floor and the East Core on Levels 1, 2 and 3 will have Monumental Precast Concrete Window Frames.

Metal Window Frames - Metal window frames except in certain special locations will be Duranodic Finish Aluminum Type 335S, 360 degree reversible and with double neoprene gaskets. The cost of the typical 360 degree Duranodic Finish Aluminum window frame and operating sections is $170. per unit.

Duranodic Aluminum Covers for Window Inductron Units - The Inductron Units at the windows are covered on the exterior by a Duranodic Aluminum cover to match the window frames. This cover is insulated on the inside.

The interior cover is fabricated by the Inductron Unit manufacturer. It is made of punched steel and finished with baked enamel.

Windows - Exterior windows are glazed with Graylite, Glare reducing glass. The thickness depends on the window size.

Exterior Doors - Exterior Doors for public entrance to the South Hall and the Lower Structure are Herculite with Bronze Trim.

Exterior service doors are hollow metal with baked enamel.

Exterior Garage Doors - These Doors are made of galvanized steel slats and are motorized with a safety button.

Council Escape Stairs - The exterior of these stairs is in brick similar to the exterior Lower Level building brick and the Plaza brick. The interior of these stairs is in brick with reinforced concrete stairs.

Roofing - A twenty (20) year bond built-up roof covers all unpaved roof slabs. This roof includes bituminous base flashing and metal base flashing. White marble chips cover all built-up roof areas.

DESCRIPTION - EXTERIOR MATERIALS

Flashing - All exposed flashing to be lead coated copper to prevent staining of adjacent materials. The weight of the lead coated copper to be sixteen (16) ounces.

Skylights - Skylights shall be fabricated of steel "T" and channel sections. Wire glass of proper thickness will be set in Thiokol in these frames. The steel frames shall be painted.

Balcony Floors - All balcony floors will be Quarry Tile set in grout.

INTERIOR MATERIALS

DESCRIPTION - INTERIOR MATERIALS

Exposed Structure - Poured in Place Concrete and Precast Concrete

Flooring - Brick, Hardwood, Semi-Terrazzo, Natural Clay Tile, Vinyl Asbestos Tile, and Special Floating Floor

Interior Doors - Wood, Hollow Metal and Special Bronze.

Interior Walls - Brick, Concrete Block, Precast Concrete, Ceramic Tile, Plaster.

Interior Ceilings - Concrete

Acoustical Treatment - Non-combustible wood fiber board.

Toilet Partitions - Baked Enamel finished steel.

Hardware - To be Determined.

Painting - See Description.

Elevators - Nine (9) Passenger Elevators, One Dumbwaiter.

Exposed Structure - Poured in Place Reinforced Concrete is used for Interior Columns, Junctions of Precast Structural Trusses and Floor Slabs. All this reinforced concrete to contain Type II Cement (dark colored cement). The texture of the finish on the Columns is still under study.

The majority of exposed concrete is precast to control the finish. The exposed reinforced concrete Trusses and "Crosses" will be Precast Concrete. This Concrete to contain Type I Cement (light colored cement). The texture of the finish on these units is still under study.

DESCRIPTION - INTERIOR MATERIALS

Flooring - Areas adjacent to the Plaza entrances are usually paved in brick to match the Plaza brick.

Wood Oak Flooring is used with Semi-Terrazzo strips on the Ceremonial Level (Fifth Floor). This oak flooring is inlaid flush with the semi-terrazzo.

Semi-Terrazzo with brass divider strips is used in all corridors. This Terrazzo is laid shortly after the pouring of the concrete slabs and appears the same as conventional Terrazzo.

Natural Clay Unglazed Tile is used for the floors of Toilet Rooms.

Quarry Tile is used for the floors of Service Areas.

Vinyl Asbestos Tile is used for the floors of all offices except on the Ceremonial Level (Fifth Floor).

A Special Metal Floating Floor is used for the Central Electronic Data Processing Room. This Floating Floor is used to permit easy access to the various electronic cables connecting the equipment and supplying electric power to the equipment.

Interior Doors - All offices will have wood 1-3/4", solid core doors.

The doors on the Ceremonial Level (Fifth Floor) will have selected hardwood veneers.

The Main Entrance doors to each department will be selected hardwood veneers. These doors will have a one (1) hour fire rating.

Doors to Conference Rooms and certain offices will be made soundproof.

Hollow metal doors will be used for Smoke Door; and the entrances to stair towers. Smoke doors shall have wire glass where they occur in the corridors. All the hollow metal doors will have a baked enamel finish.

Bronze doors of a special design will be used between the South Hall and the entrance to the Lower Structure Building.

Interior Door Frames - The Interior Door Frames are painted hollow metal.

Interior Walls -

Brick - The inside face of Exterior Walls on end and 3rd Levels in the Lower Structure Buildings are brick to match the exterior. Certain other selected walls in the Lower Structure Building are brick.

Interior Walls - (Continued)

Concrete Block - Partitions in the Lower Structure Building, partitions in the Stair Towers, and partitions in service areas to be Concrete Block.

Precast Concrete - Precast Light Weight Concrete Panels are used for partitions between the corridors and the offices on Levels 6, 7, 8, and 9.

Ceramic Tile - All Lavatories and Janitors Closets Walls have a Ceramic Tile facing.

Plaster - Partition walls between intra-departmental offices are plaster on wire lath and metal studs.

Certain special interior walls in selected offices have T & G siding, and/or unpolished plate glass.

Interior Ceilings - Interior ceilings are exposed concrete as described in Exposed Structure above.

Acoustical Treatment - Where required acoustical non-combustible wood fiber board is applied to the ceilings to reduce sound reverberation.

Toilet Partitions - Toilet Partitions are steel with a baked enamel, galvanized, and bonderized finish. They are floor supported or ceiling supported depending on the location.

Hardware - The various items of hardware are under study. Currently $100./door is allowed for the finish hardware. This will buy an excellent grade of hardware.

Painting - The Painting of surfaces is kept to a minimum to allow the natural finish of the material to be exposed and to reduce maintenance cost.

Where practical baked-enamel finishes are used on iron and steel surfaces, i.e., toilet partitions, hollow metal doors, etc. Where it is not practical iron and steel surfaces are painted.

Other materials that are painted are Concrete Floors, Office Plaster Walls, exposed aluminum ductwork and exposed electrical conduit.

Elevators - Nine (9) Passenger Elevators are provided. These elevators have interiors of a special design.

An electric drum dumbwaiter connects the First and Third Floors.

PRELIMINARY

FINISH SCHEDULE

for the

BOSTON CITY HALL

GENERAL NOTES

1. This Finish Schedule is related to the 1/16" scale drawings. The internal department divisions are not reflected in this Schedule.

2. The finish of walls inside vents and shaftways is not indicated in this Schedule.

3. Acoustical materials cemented to concrete ceilings above each coffer are not indicated in the Finish Schedule.

4. Finish and location of doors is not indicated in this Schedule. For door finish see Specifications. Small panels of interior glass are not located in this Schedule.

5. Concrete where used for exposed floors shall have hardener. Concrete used for stairs shall have "non-slip" surface on treads.

FINISH SCHEDULE

			WALLS			
SPACE	FLOOR	CEILING	NORTH	EAST	SOUTH	WEST
FIRST FLOOR						
NORTH CORE						
Janitors Closet	Concrete	Concrete	Concrete & Conc. Block	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Lobby	Semi-Terrazzo	Concrete	Concrete	Concrete	Open	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Stairs	Concrete	Concrete	Concrete	Concrete	Concrete & Conc. Block	Concrete
INACTIVE FILES AND STORAGE	Concrete	Concrete	Concrete	Concrete	Concrete & Conc. Block	Concrete
INACTIVE FILES AND STORAGE	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
GARAGE	Concrete	Concrete	Conc. Block	Concrete	Concrete	Conc. Block
EMERGENCY COMMAND CENTER	Vinyl Asbestos Tile	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block
INACTIVE FILES AND STORAGE	Concrete	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block
SWITCH GEAR	Concrete	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block
TRANSFORMER	Concrete	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block

FINISH SCHEDULE (Continued)

			WALLS			
SPACE	FLOOR	CEILING	NORTH	EAST	SOUTH	WEST
FIRST FLOOR (Continued)						
EAST CORE						
Stairs	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
CUSTODIAL	Concrete	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block
ENTRANCE LOBBY	Brick	Concrete	Brick	Concrete & Glass	Concrete & Brick	Brick
SOUTH CORE						
Janitors Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Lobby	Brick	Concrete	Open	Concrete	Concrete	Concrete
Stairs	Concrete	Concrete	Concrete & Conc. Block	Concrete	Concrete	Concrete
Electrical Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
LOADING AND RECEIVING	Concrete	Concrete	Concrete & Conc. Block	Concrete & Conc. Block	Open	Concrete & Conc. Block
TYPEWRITER REPAIR	Vinyl Asbestos Tile	Concrete	Conc. Block	Conc. Block	Concrete	Conc. Block
CENTRAL OFFICE SUPPLY	Vinyl Asbestos Tile	Concrete	Conc. Block	Conc. Block	Concrete	Conc. Block
WEIGHTS & MEASURES	Vinyl Asbestos Tile	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
FIRST FLOOR (Continued)						
FILES	Concrete	Concrete	Conc. Block	Conc. Block	Concrete	Concrete
MECHANICAL	Concrete	Concrete	Concrete	Conc. Block	Conc. Block	Concrete
CENTRAL MAIL AND COMMUNICATIONS	Vinyl Asbestos Tile	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block
FILES	Concrete	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block
ALL CORRIDORS	Semi-Terrazzo	Concrete	All Walls Concrete Block			

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
SECOND FLOOR						
NORTH CORE						
Janitors Closet	Concrete	Concrete	Concrete & Conc. Block	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Lobby	Brick	Concrete	Glass & Concrete	Concrete	Open	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Stairs	Concrete	Concrete	Concrete	Concrete	Concrete & Conc. Block	Concrete
ELECTION DEPARTMENT	Vinyl Asbestos Tile	Concrete and Wire Glass	Concrete & Conc. Block	Concrete & Conc. Block	Conc. Block	Concrete & Conc. Block
LICENSING DIVISION	Vinyl Asbestos Tile	Concrete and Wire Glass	Conc. Block	Concrete & Concrete Block	Conc. Block	Brick
BOSTON RETIREMENT BOARD	Vinyl Asbestos Tile	Concrete and Wire Glass	Conc. Block	Concrete & Concrete Block	Conc. Block	Brick
LICENSING BOARD	Vinyl Asbestos Tile	Concrete and Wire Glass	Conc. Block	Concrete & Conc. Block	Concrete & Conc. Block	Brick
EAST CORE						
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS NORTH	 EAST	 SOUTH	 WEST
SECOND FLOOR (Continued)						
EAST CORE (Continued)						
Telephone Closet	Concrete	Concrete	Concrete	Conc. Block	Conc. Block	Conc. Block
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Conc. Block
Stairs	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
REGISTRY	Vinyl Asbestos Tile	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block & Glass
DIVISION OF HEALTH DEPARTMENT						
SOUTH CORE						
Janitors Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Lobby	Semi-Terrazzo	Concrete	Open	Concrete	Glass	Concrete
Stairs	Concrete	Concrete	Concrete & Concrete Block	Concrete	Concrete	Concrete
Electrical Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
PENAL INSTITUTIONS	Vinyl Asbestos Tile	Concrete	Concrete & Conc. Block	Conc. Block	Conc. Block	Conc. Block
INACTIVE FILES AND STORAGE	Concrete	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block

FINISH SCHEDULE (Continued)

			WALLS			
SPACE	FLOOR	CEILING	NORTH	EAST	SOUTH	WEST
SECOND FLOOR (Continued)						
CENTRAL ELECTRONIC DATA PROCESSING	Floating Conductive Floor	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block
WEST CORE						
Stairs	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Executive Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
COMPLAINTS	Vinyl Asbestos Tile	Concrete	Concrete & Glass	Concrete	Concrete & Conc. Block	Conc. Block
REMOTE OFFICES	Vinyl Asbestos Tile	Concrete	Conc. Block	Concrete & Glass	Concrete & Glass	Conc. Block
CREDIT UNION	Vinyl Asbestos Tile	Concrete	Concrete	Concrete & Glass	Conc. Block	Concrete & Conc. Block
CORRIDORS FROM COLUMN LINES A TO H	Brick	Concrete	Concrete & Glass	Brick	Brick, Concrete & Glass	Brick, Concrete & Glass
CORRIDORS FROM COLUMN LINES H TO M	Semi-Terrazzo	Concrete	Conc. Block & Glass	Brick & Glass	Concrete & Conc. Block	Concrete Conc. Block & Glass

FINISH SCHEDULE (Continued)

			WALLS			
SPACE	FLOOR	CEILING	NORTH	EAST	SOUTH	WEST
THIRD FLOOR						
NORTH CORE						
Stairs	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Janitors Closet	Concrete	Concrete	Conc. Block	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Toilet Lobby	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Side Entrance Lobby	Brick	Concrete	Inside Face Exterior Wall Concrete and Glass	Concrete	Concrete	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
ASSESSING DEPARTMENT	Vinyl Asbestos Tile	Concrete & Wire Glass	Concrete & Conc. Block	Concrete & Conc. Block	Concrete & Conc. Block & Glass	Concrete & Conc. Block
EXPANSION	Vinyl Asbestos Tile	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block
WOMEN'S TOILET	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
MEN'S TOILET	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			

FINISH SCHEDULE (Continued)

			WALLS			
SPACE	FLOOR	CEILING	NORTH	EAST	SOUTH	WEST
THIRD FLOOR (Continued)						
MAIN ENTRANCE LOBBY	Brick	Concrete	Concrete & Glass	Inside Face Exterior Wall Concrete & Glass	Inside Face Exterior Wall Concrete & Glass	Inside Face Exterior Wall Concrete & Glass
SOUTH CORE						
Electrical Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Conc. Block
Stairs	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Elevator Lobby	Brick	Concrete	Open	Concrete	Inside Face Exterior Wall Concrete & Glass	Concrete
Janitors Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
WEST CORE						
Stairs	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Conc. Block	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Conc. Block
Stair Lobby	Ceramic Tile	Concrete	Conc. Block	Concrete	Concrete	Concrete

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
THIRD FLOOR (Continued)						
TREASURY	Vinyl Asbestos Tile	Concrete	Concrete & Conc. Block	Concrete & Conc. Block & Glass	Concrete & Conc. Block	Concrete & Conc. Block
AUDITING	Vinyl Asbestos Tile	Concrete	Concrete & Conc. Block	Concrete & Conc. Block	Concrete & Conc. Block	Concrete & Conc. Block

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
FOURTH FLOOR						
NORTH CORE						
Stairs	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Janitors Closet	Concrete	Concrete	Conc. Block	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Conc. Block	Concrete
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Lobby	Semi-Terrazzo	Concrete	Inside Face Exterior Wall Concrete & Glass	Concrete	Inside Face Exterior Wall Concrete & Glass	Concrete
CIVIL DEFENSE	Vinyl Asbestos Tile	Concrete & Wire Glass	Concrete & Conc. Block	Concrete & Conc. Block	Precast Light Weight Concrete	Concrete & Conc. Block
CIVIL DEFENSE EXPANSION	Vinyl Asbestos Tile	Concrete & Wire Glass	Precast Light Weight Conc.	Concrete & Concrete Block	Concrete & Concrete Block	Concrete & Concrete Block and Precast Light Weight Concrete
CORRIDOR	Semi-Terrazzo	Concrete	Concrete, Glass, and Precast Light Weight Conc.	Precast Light Weight Concrete	Concrete, Glass, and Precast Light Weight Concrete	Concrete

FINISH SCHEDULE (Continued)

			WALLS			
SPACE	FLOOR	CEILING	NORTH	EAST	SOUTH	WEST
FIFTH FLOOR						
NORTH CORE						
(No Openings On This Floor)						
LIBRARY	Oak Strip Flooring & Semi-Terrazzo	Concrete	Concrete	Inside Face Exterior Wall Concrete and Glass	Concrete	Inside Face Exterior Wall Concrete & Glass
EAST CORE						
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Lib. Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Lib. Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Telephone Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Conc. Block
Janitors Closet	Concrete	Concrete	Conc. Block	Concrete	Conc. Block	Conc. Block
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Stairs	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Lobby	Semi-Terrazzo	Concrete	Conc. Block	Concrete	Concrete	Concrete

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
FIFTH FLOOR (Continued)						
DEPARTMENT OF MAYOR	Oak Strip Flooring & Semi-Terrazzo	Concrete	Concrete	Inside Face Exterior Wall Concrete & Glass	Inside Face Exterior Wall Concrete & Glass	Concrete
SOUTH CORE						
Electrical Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Stairs	Concrete	Concrete	Conc. Block & Concrete	Concrete	Concrete	Concrete
Lobby	Semi-Terrazzo	Concrete	Open	Concrete	Open	Concrete
Janitors Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
COUNCIL CHAMBER	Oak Strip Flooring & Concrete Nosing	Concrete	Concrete	Concrete	Concrete	Concrete
WEST CORE						
Electrical Closet	Concrete	Concrete	Concrete	Conc. Block	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Conc. Block
Stairs	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS NORTH	 EAST	 SOUTH	 WEST
FIFTH FLOOR (Continued)						
CITY COUNCIL	Oak Strip Flooring & Concrete Nosing	Concrete	Concrete	Inside Face Exterior Wall Concrete and Glass	Concrete	Inside Face Exterior Wall Concrete and Glass
TOILET CORE						
Northwest Executive Toilet & Shower	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Southwest Executive Toilet & Shower	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Northeast Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Southeast Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
SIXTH FLOOR						
NORTH CORE						
Janitors Closet	Concrete	Concrete	Concrete & Conc. Block	Concrete	Conc. Block	Concrete
Executive Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Lobby	Semi-Terrazzo	Concrete	Concrete	Concrete	Open	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Conc. Block	Concrete	Concrete
Telephone Closet	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete & Conc. Block
Stairs	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
ADMINISTRATIVE SERVICES DEPARTMENT	Vinyl Asbestos Tile	Concrete	Inside Face Exterior Wall Concrete & Glass	Inside Face Exterior Wall Concrete & Glass	Precast Light Weight Concrete	Concrete & Precast Light Weight Concrete
EXPANSION	Vinyl Asbestos Tile	Concrete	Precast Light Weight Concrete	Inside Face Exterior Wall Concrete & Glass	Concrete & Precast Light Weight Concrete	Precast Light Weight Concrete
EAST CORE						
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Telephone Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Conc. Block

FINISH SCHEDULE

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
SIXTH FLOOR (Continued)						
EAST CORE (Continued)						
Janitors Closet	Concrete	Concrete	Conc. Block	Concrete	Conc. Block	Conc. Block
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Stairs	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Lobby	Ceramic Tile	Concrete	Conc. Block	Concrete	Concrete	Concrete
EXPANSION	Vinyl Asbestos Tile	Concrete	Concrete	Inside Face Exterior Wall Concrete & Glass	Inside Face Exterior Wall Concrete & Glass	Concrete & Precast Light Weight Concrete
CITY RECORDS	Vinyl Asbestos Tile	Concrete	Precast Light Weight Concrete	Precast Light Weight Concrete	Inside Face Exterior Wall Concrete & Glass	Precast Light Weight Concrete
SOUTH CORE						
Electrical Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Stairs	Concrete	Concrete	Conc. Block & Concrete	Concrete	Concrete	Concrete
Lobby	Semi-Terrazzo	Concrete	Open	Concrete	Concrete	Concrete
Janitors Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUGH	WEST
SIXTH FLOOR (Continued)						
EXPANSION	Vinyl Asbestos Tile	Concrete	Concrete	Concrete	Concrete	Concrete
WEST CORE						
Stairs	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Conc. Block	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Concrete	Conc. Block	Conc. Block	Conc. Block
Janitors Closet	Concrete	Concrete	Conc. Block	Conc. Block	Conc. Block	Conc. Block
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Lobby	Ceramic Tile	Concrete	Conc. Block	Concrete	Concrete	Concrete
LAW DEPARTMENT	Vinyl Asbestos Tile	Concrete	Inside Face Exterior Wall Concrete & Glass	Precast Light Weight Concrete	Precast Light Weight Concrete & Glass	Inside Face Exterior Wall Concrete & Glass
ALL CORRIDORS	Semi-Terrazzo	Concrete	All Interior Walls Precast Light Weight Concrete. All Exterior Walls Concrete and Glass.			

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
SEVENTH FLOOR						
NORTH CORE						
Janitors Closet	Concrete	Concrete	Concrete & Conc. Block	Concrete	Conc. Block	Conc.
Executive Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Lobby	Semi-Terrazzo	Concrete	Concrete	Concrete	Open	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Conc. Block	Concrete	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete & Conc. Block
Stairs	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
PUBLIC WORKS DEPARTMENT	Vinyl Asbestos Tile	Concrete	Inside Face Exterior Wall Concrete & Glass	Inside Face Exterior Wall Concrete & Glass	Precast Light Weight Concrete	Precast Light Weight Concrete
BOSTON HOUSING AUTHORITY	Vinyl Asbestos Tile	Concrete	Precast Light Weight Concrete	Inside Face Exterior Wall Concrete & Glass	Precast Light Weight Concrete	Precast Light Weight Concrete
EAST CORE						
Electrical Closet	Concrete	Concrete	Concrete	Conc. Block	Conc. Block	Concrete
Janitors Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Conc. Block
Telephone Closet	Concrete	Concrete	Conc. Block	Conc. Block	Concrete	Concrete
Stairs	Concrete	Concrete	Open	Concrete	Concrete	Concrete

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
SEVENTH FLOOR (Continued)						
EAST CORE (Continued)						
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Lobby	Ceramic Tile	Concrete	Conc. Block	Conc. Block	Conc. Block	Concrete
Stairs	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
BOSTON HOUSING AUTHORITY	Vinyl Asbestos Tile	Concrete	Concrete	Inside Face Exterior Wall Concrete & Glass	Inside Face Exterior Wall Concrete & Glass	Concrete & Precast Light Weight Concrete
SOUTH CORE						
Electrical Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Stairs	Concrete	Concrete	Conc. Block & Concrete	Concrete	Concrete	Concrete
Lobby	Semi-Terrazzo	Concrete	Open	Concrete	Concrete	Concrete
Janitors Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
SEVENTH FLOOR (Continued)						
VETERANS SERVICE DEPARTMENT	Vinyl Asbestos Tile	Concrete	Concrete	Concrete & Precast Light Weight Concrete	Inside Face Exterior Wall Concrete & Glass	Inside Face Exterior Wall Concrete & Glass
WEST CORE						
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Conc. Block
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Stairs	Concrete	Concrete	Open	Concrete	Concrete	Concrete
Janitors Closet	Concrete	Concrete	Conc. Block	Conc. Block	Concrete	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Conc. Block
Lobby	Ceramic Tile	Concrete	Conc. Block	Concrete	Conc. Block	Conc. Block
Stairs	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
PUBLIC WORKS DEPARTMENT	Vinyl Asbestos Tile	Concrete	Inside Face Exterior Wall Concrete & Glass	Concrete & Precast Light Weight Concrete	Concrete & Precast Light Weight Concrete	Inside Face Exterior Wall Concrete & Glass
ALL CORRIDORS	Semi-Terrazzo	Concrete	All Interior Walls Precast Light Weight Concrete All Exterior Walls Concrete and Glass			

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST
EIGHTH FLOOR						
NORTH CORE						
Janitors Closet	Concrete	Concrete	Concrete & Conc. Block	Concrete	Conc. Block	Concrete
Executive Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Lobby	Semi-Terrazzo	Concrete	Concrete	Concrete	Open	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Conc. Block	Concrete	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete & Conc. Block
Stairs	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
HEALTH DEPARTMENT	Vinyl Asbestos Tile	Concrete	Inside Face Exterior Wall Concrete and Glass	Inside Face Exterior Wall Concrete and Glass	Concrete & Precast Light Weight Concrete	Precast Light Weight Concrete
EAST CORE						
Electrical Closet	Concrete	Concrete	Concrete	Conc. Block	Conc. Block	Concrete
Janitors Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Conc. Block
Telephone Closet	Concrete	Concrete	Conc. Block	Conc. Block	Concrete	Concrete
Stairs	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Lobby	Ceramic Tile	Concrete	Conc. Block	Conc. Block	Conc. Block	Concrete

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
EIGHTH FLOOR (Continued)						
REAL PROPERTY DEPARTMENT	Vinyl Asbestos Tile	Concrete	Concrete & Precast Light Weight Concrete	Inside Face Exterior Wall Concrete & Glass	Inside Face Exterior Wall Concrete & Glass	Concrete & Precast Light Weight Concrete
WORKMEN'S COMPENSATION AND MEDICAL FACILITY	Vinyl Asbestos Tile	Concrete	Concrete & Precast Light Weight Concrete	Concrete & Precast Light Weight Concrete	Inside Face Exterior Wall Concrete & Glass	Concrete
SOUTH CORE						
Electrical Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Stairs	Concrete	Concrete	Conc. Block & Concrete	Concrete	Concrete	Concrete
Lobby	Semi-Terrazzo	Concrete	Open	Concrete	Concrete	Concrete
Janitors Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
SHARED CONFERENCE ROOMS	Red Oak	Concrete	Concrete	Concrete	Concrete	Concrete
PARKS AND RECREATION DEPARTMENT	Vinyl Asbestos Tile	Concrete	Concrete & Precast Light Weight Concrete	Concrete & Precast Light Weight Concrete	Inside Face Exterior Wall Concrete & Glass	Inside Face Exterior Wall Concrete & Glass

FINISH SCHEDULE (Continued)

			WALLS			
SPACE	FLOOR	CEILING	NORTH	EAST	SOUTH	WEST
EIGHTH FLOOR (Continued)						
BUILDING DEPARTMENT	Vinyl Asbestos Tile	Concrete	Concrete	Concrete & Precast Light Weight Concrete	Concrete & Precast Light Weight Concrete	Inside Face Exterior Wall Concrete and Glass
WEST CORE						
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Conc. Block
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Stairs	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Janitors Closet	Concrete	Concrete	Conc. Block	Conc. Block	Concrete	Concrete
Telephone Closet	Concrete		Conc. Block	Concrete	Concrete	Conc. Block
Lobby	Ceramic Tile	Concrete	Conc. Block	Concrete	Conc. Block	Conc. Block
BUILDING DEPARTMENT	Vinyl Asbestos Tile	Concrete	Inside Face Exterior Wall Concrete & Glass	Concrete & Precast Light Weight Concrete	Concrete	Inside Face of Exterior Wall Concrete & Glass
ALL CORRIDORS	Semi-Terrazzo	Concrete	All Interior Walls Precast Light Weight Concrete All Exterior Walls Concrete and Glass			

FINISH SCHEDULE (Continued

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
NINTH FLOOR						
NORTH CORE						
Janitors Closet	Concrete	Concrete	Concrete & Conc. Block	Concrete	Conc. Block	Concrete
Executive Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Lobby	Semi-Terrazzo	Concrete	Concrete	Concrete	Open	Concrete
Electrical Closet	Concrete	Concrete	Concrete	Conc. Block	Concrete	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete & Conc. Block
Stairs	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
BOSTON REDEVELOPMENT AUTHORITY	Vinyl Asbestos Tile	Concrete	Inside Face Exterior Wall Conc. & Glass	Inside Face Exterior Wall Conc. & Glass	Concrete & Precast Light Weight Concrete	Precast Light Weight Concrete
EAST CORE						
Electrical Closet	Concrete	Concrete	Concrete	Conc. Block	Conc. Block	Concrete
Janitors Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Conc. Block
Telephone Closet	Concrete	Concrete	Conc. Block	Conc. Block	Concrete	Concrete
Stairs	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Lobby	Ceramic Tile	Concrete	Conc. Block	Conc. Block	Conc. Block	Concrete
BOSTON REDEVELOPMENT AUTHORITY	Vinyl Asbestos Tile	Concrete	Concrete & Precast Light Weight Concrete	Inside Face Exterior Wall Conc. & Glass	Inside Face Exterior Wall Conc. & Glass	Precast Light Weight Concrete

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
NINTH FLOOR (Continued)						
SOUTH CORE						
Electrical Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Stairs	Concrete	Concrete	Conc. Block & Concrete	Concrete	Concrete	Concrete
Lobby	Semi-Terrazzo	Concrete	Open	Concrete	Concrete	Concrete
Janitors Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Concrete
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
BOSTON REDEVELOPMENT AUTHORITY	Vinyl Asbestos Tile	Concrete	Concrete & Precast Light Weight Concrete	Precast Light Weight Concrete	Inside Face Exterior Wall Conc. & Glass	Inside Face Exterior Wall Conc. & Glass
WEST CORE						
Electrical Closet	Concrete	Concrete	Concrete	Concrete	Conc. Block	Conc. Block
Women's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Men's Toilet	Ceramic Tile	Painted Plaster	---------- All Walls Ceramic Tile ----------			
Stairs	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete
Janitors Closet	Concrete	Concrete	Conc. Block	Conc. Block	Concrete	Concrete
Telephone Closet	Concrete	Concrete	Conc. Block	Concrete	Concrete	Conc. Block
Lobby	Ceramic Tile	Concrete	Conc. Block	Concrete	Conc. Block	Conc. Block

FINISH SCHEDULE (Continued)

SPACE	FLOOR	CEILING	WALLS			
			NORTH	EAST	SOUTH	WEST
NINTH FLOOR (Continued)						
BOSTON REDEVELOPMENT AUTHORITY	Vinyl Asbestos Tile	Concrete	Inside Face Exterior Wall Conc. & Glass	Concrete & Precast Light Weight Concrete	Concrete & Precast Light Weight Concrete	Inside Face Exterior Wall Conc. & Glass
ALL CORRIDORS	Semi-Terrazzo	Concrete	All Interior Walls Precast Light Weight Concrete			
			All Exterior Walls Concrete and Glass			

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